Appendix table 1—Estimated t-statistics on characteristics of wheat farms among regions, 1994

Item	Unit	North Central & Southeast	North Central & Northern Plains	North Central & Central and Southern Plains	North Central & Pacific	Southeast & Northern Plains
Size:		Southeast	T (OT WITCH T TWITE)	SCULLET I IMILE		1 (01010111 1 101110
	4	0.76	1 02**	5 CC+++	2 00+++	1.60*
Operated	Acres	0.76	1.93**	5.66***	3.00***	1.69*
Planted wheat	Acres	2.91***	3.60***	8.11***	3.95***	2.84***
Harvested wheat	Acres	2.73***	3.52***	7.52***	3.97***	2.81***
Sales class:						
\$49,999 or less	Percent of farms	3.63***	0.10	0.61	1.65	1.80*
\$50,000-\$99,999	Percent of farms	0.52	0.76	0.32	0.06	1.59
\$100,000-\$499,999	Percent of farms	1.34	0.18	0.37	0.19	1.64*
\$500,000 or more	Percent of farms	1.94*	1.24	0.95	2.15**	2.96***
Value of production:	0.0					
Wheat production value	Dollars per farm	2.23*	2.87**	5.37***	2.63***	1.85*
Farm production value	Dollars per farm	2.27*	1.94*	2.66***	0.77	3.29***
Wheat tenure:						
Owned	Percent of acres	1.97**	0.38	1.74*	1.65*	1.10
Cash-rented	Percent of acres	1.64*	1.04	0.91	1.53	0.74
Share-rented	Percent of acres	0.19	0.65	2.36**	2.66***	0.59
Production practices:						
Winter wheat	Percent of farms	0	11.86***	1.83*	5.54***	11.86***
Spring wheat	Percent of farms	0	0	0	0	0
Irrigated	Percent of farms	0.26	1.18	4.2***	2.58***	1.04
Double-cropped	Percent of farms	4.95***	0	2.68***	2.75***	0
Fallow	Percent of farms	0.47	4.28***	7.67***	6.29***	3.57***
Grazing	Percent of farms	0.02	0.26	8.73***	2.83***	0.40
-	1 erceni oj jarnis	0.02	0.20	0.75	2.03	0.40
Previous crop:	D	0	0	0	0	0.01
Barley/oats	Percent of farms	0	0	0	0	0.81
Corn	Percent of farms	3.04***	0.03	3.41***	3.17***	1.28
Soybeans	Percent of farms	4.21***	7.46***	11.64***	0	1.29
Wheat	Percent of farms	0.49	1.56	11.15***	3.60***	1.51
Fallow	Percent of farms	0.85	4.81***	5.28***	4.29***	4.36***
Crop rotation:						
Continuous wheat	Percent of farms	0	0	0	0	0
Fallow-wheat	Percent of farms	0	0	0	0	0
Fallow-other	Percent of farms	0.85	2.15**	0.88	0.88	1.40
Corn-soybeans	Percent of farms	2.55**	1.23	3.47***	0	3.47***
Corn-other	Percent of farms	1.88*	0.26	2.01**	1.70*	0.39
Soybeans-soybeans	Percent of farms	0.16	4.54***	4.31***	0	1.95**
Soybeans-corn	Percent of farms	8.03	5.70***	8.88***	0	1.93**
Production speciality:	i ereem oj jemmo	0.05	5.70	0.00	· ·	1.,,
Cash grains	Percent of farms	2.61***	0.78	0.05	2.40**	1.81*
Other crops	Percent of farms	0	0.70	0	0	8.44***
Livestock	Percent of farms	1.52	0.74	0.80	1.65*	2.71***
Livestock:	1 ereen of jarms	1.52	0.71	0.00		2.71
Hogs	Percent of farms	1.07	1.70*	2.68***	2.92***	1.57
Beef cattle	Percent of farms	1.20	0.38	0.23	0.74	2.11**
Dairy cattle	Percent of farms	2.77***	1.70*	3.60***	3.14***	1.62
Wheat for farm use	Percent	2.01**	2.74***	2.05**	3.24***	0.14
Participation in wheat program	Percent of farms	0.96	1.66*	2.72***	1.14	2.74***
Operator characteristics:						
Individual farm organization	Percent of farms	0.05	0.21	1.10	0.96	0.30
Partnership	Percent of farms	0.32	0.09	0.78	0.84	0.15
Farming as major occupation	Percent of farms	0.24	1.90*	1.36	1.73	0.69
Under 50 years of age	Percent of farms	0.61	0.05	0.34	0.15	0.46

See footnotes at the end of this table.

Continued—

Appendix table 1—Estimated t-statistics on characteristics of wheat farms among regions, 1994--Continued

Item	Unit	Southeast & Central and Southern Plains	Southeast & Pacific	Northern Plains & Central and Southern Plains	Northern Plains & Pacific	Central and Southern Plains & Pacific
	Oilit	Southern Flams	& I acilic	Southern Fights	& I acilic	& I acilic
Size:		2. 4.5.4.4.4.	2.20***	0.62	0.54	0.00
Operated	Acres	3.47***	2.30**	0.62	0.54	0.09
Planted wheat	Acres	5.36***	2.84***	0.97	0.73	0.18
Harvested wheat	Acres	4.84***	2.93***	1.20	0.65	0.62
Sales class:						
\$49,999 or less	Percent of farms	5.13***	1.75*	0.44	0.86	2.50**
\$50,000-\$99,999	Percent of farms	1.12	0.68	0.87	1.58	0.84
\$100,000-\$499,999	Percent of farms	2.36**	1.58	0.15	0.44	0.90
\$500,000 or more	Percent of farms	2.91***	0.02	0.60	3.32***	3.38***
Value of production:	3 3					
Wheat production value	Dollars per farm	2.00**	2.17**	1.02	1.19	1.77*
Farm production value	Dollars per farm	3.59***	0.12	0.16	1.08	1.10
Wheat tenure:	Botten's per jen in	2.07	0.12	0.10	1.00	1110
Owned	Danagat of games	0.67	0.31	0.85	0.89	0.22
	Percent of acres	3.35***	4.02***	0.85 2.73***	0.89 3.49***	0.22 1.76*
Cash-rented	Percent of acres					
Share-rented	Percent of acres	3.61***	3.56***	5.43***	4.61***	1.01
Production practices:						
Winter wheat	Percent of farms	1.83*	5.54***	11.84***	9.37***	5.47***
Spring wheat	Percent of farms	0	0	13.47***	10.07***	5.47***
Irrigated	Percent of farms	4.18***	2.58***	3.87***	2.55**	2.06**
Double-cropped	Percent of farms	7.93***	7.91***	0	0	0.55
Fallow	Percent of farms	5.11***	5.53***	0.23	1.94*	2.55**
Straw	Percent of farms	4.48***	0.32	0.68	0.91	1.03
Grazing	Percent of farms	8.77***	2.88***	8.72***	2.80***	6.52***
Previous crop:						
Barley/oats	Percent of farms	0	2.21**	0	2.00**	0
Corn	Percent of farms	7.26***	6.68***	1.10	1.13	0.25
Soybeans	Percent of farms	2.92***	0	2.39**	0	0
Wheat	Percent of farms	10.99***	3.43***	3.80***	0.21	7.08***
Fallow	Percent of farms	4.80***	3.89***	0.26	0.10	0.35
Crop rotation:	1 erceni oj jarms	4.00	3.09	0.20	0.10	0.55
Continuous wheat	Daycout of farms	0	0	3.44***	0.73	9.12***
Fallow-wheat	Percent of farms	0	0			
	Percent of farms			0.61	0.43	0.14
Fallow-other	Percent of farms	0.02	0.11	1.39	1.23	0.09
Corn-soybeans	Percent of farms	5.19***	0	1.83*	0	0
Corn-other	Percent of farms	5.04***	4.16***	0.81	0.80	0.03
Soybeans-soybeans	Percent of farms	1.87*	0	0.47	0	0
Soybeans-corn	Percent of farms	3.52***	0	3.06***	0	0
Production specialty:						
Cash grains	Percent of farms	3.91***	0.23	0.97	1.60	3.53***
Other crops	Percent of farms	5.27***	1.41	1.89*	5.83***	3.48***
Livestock	Percent of farms	1.69*	0.43	1.88*	2.83***	1.90*
Livestock:						
Hogs	Percent of farms	4.83***	5.46***	3.19***	3.92***	1.43
Beef cattle	Percent of farms	2.45**	0.64	0.24	1.43	1.49
Dairy cattle	Percent of farms	2.93***	1.21	3.16***	2.29**	1.64
	U U					
Wheat for farm use	Percent	0.13	0.85	0.01	1.43	1.07
Participated in wheat program	Percent of farms	4.97***	2.64***	0.29	0.94	2.38**
Operator characteristics:						
Individual farm organization	Percent of farms	2.52**	1.43	0.65	1.07	3.47***
Partnership	Percent of farms	2.95***	0.95	0.71	0.59	3.11***
Farming as major occupation	Percent of farms	0.90	0.73	2.84***	0.11	2.60***
			0.40	0.22		0.15
Under 50 years of age	Percent of farms	0.34	0.43	0.22	0.08	0.15

^{* =} Significant at the 10-percent level. ** = Significant at the 5-percent level *** = Significant at the 1-percent level.

Appendix table 2—Estimated t-statistics on input use of wheat production operations among regions, 1994

_		North Central	North Central &	North Central & Central and	North Central	Southeast &
Item	Unit	& Southeast	Northern Plains	Southern Plains	& Pacific	Northern Plains
Wheat yield:						
Actual yield	Bushels/acre	1.81*	12.03***	11.28***	1.03	6.31***
Expected yield	Bushels/acre	4.02***	7.78***	11.41***	1.97**	5.05***
Seed:						
Seed rate-one time	Bushels/acre	0.40	3.58***	25.30***	5.93***	3.63***
Acres reseeded	Percent of acres	3.68***	1.72*	2.92***	1.60	2.21**
Home-grown seed	Percent of seed	1.35	2.60**	3.52***	0.69	3.53***
Fertilizer use:	, and the second					
Any fertilizer	Percent of farms	0.81	3.97***	5.27***	1.16	3.72***
Nitrogen	Percent of farms	3.98***	3.99***	5.30***	1.45	0.93
Phosphorus	Percent of farms	5.00***	1.18	7.30***	6.23***	3.30***
Potassium	Percent of farms	3.02***	8.85***	19.79***	12.54***	3.50***
Manure	Percent of farms	3.67***	2.17**	2.80***	0.86	0.64
Fertilizer application rate:	· · · · · · · · · · · · · · · · · ·				****	****
Nitrogen	Pounds/acre	1.52	4.55***	7.04***	1.44	2.67***
Phosphorus	Pounds/acre	4.82***	5.54***	9.52***	8.95***	0.66
Potassium	Pounds/acre	2.36**	10.89***	11.31***	11.15***	5.53***
Manure	Tons/acre	2.71***	1.83*	4.16***	0.32	4.02***
	10ns/acre	2./1	1.03	4.10	0.32	4.02
Chemical use:	D	2.55**	4.70***	1.02*	0.21***	2 20***
Any chemicals	Percent of farms	2.55**	4.70***	1.83*	8.21***	3.20***
Herbicides	Percent of farms	1.83*	4.71***	1.53	8.12***	3.65***
Insecticides/fungicides	Percent of farms	2.34**	2.04**	5.40***	4.46***	1.98**
Herbicides	Acre treatments	3.73***	10.36***	2.35**	9.23***	5.75***
Insecticides/fungicides	Acre treatments	0	0	0	0	1.99**
Tillage systems: Conventional with						
moldboard plow Conventional without	Percent of farms	0.15	0.64	0.77	1.12	0.73
moldboard plow	Percent of farms	0.89	0.22	2.53**	1.34	0.72
Mulch tillage	Percent of farms	1.45	2.00**	0.02	0.34	1.31
No-till	Percent of farms	1.31	2.03**	2.34**	2.40**	0.45
Custom operations:						
Any custom	Percent of farms	3.74***	0.72	3.18***	5.49***	1.72*
Land preparation/	· · · · · · · · · · · · · · · · · ·					
cultivation	Percent of farms	1.96**	3.88***	4.29***	5.13***	2.95***
Planting	Percent of farms	0.62	0.15	1.97**	2.49**	0.54
Fertilizer/chemical						
application	Percent of farms	2.05**	0.02	0.58	2.29**	2.75***
Harvesting/hauling	Percent of farms	1.49	0.53	2.27***	1.97*	0.95
Fuel use:						
Diesel	Gallons/acre	2.62***	2.61***	7.32***	4.43***	0.09
Gasoline	Gallons/acre	0.79	0.67	0.41	0.17	0.01
LP gas	Gallons/acre	0.75	0.07	0	0.17	0.95
Natural gas	1,000 cubic feet/acre	0	0	0	0	0.73
Electricity	Kilowatt hours/acre	0	0	0	0	0.81
Labor use:	monun nours, acre	U	U	U	U	0.01
	Hours/acre	1.73*	2.38**	1.41	2.12**	0.81
Unpaid labor				0.59	3.22***	0.81 3.42***
Paid labor	Hours/acre	1.30	1.30	0.39	3.22	3.42

See footnotes at the end of this table.

Continued—

Appendix table 2—Estimated t-statistics on input use of wheat production operations among regions, 1994--Continued

Itama	T In: 4	Southeast & Central and	Southeast	Northern Plains & Central and	Northern Plains	Central and Southern Plains
Item	Unit	Southern Plains	& Pacific	Southern Plains	& Pacific	& Pacific
Wheat yield:						
Actual yield	Bushels/acre	5.99***	1.92*	0.47	5.27***	5.14***
Expected yield	Bushels/acre	7.55***	3.40***	0.83	5.42***	5.45***
Seed:						
Seed rate-one time	Bushels/acre	19.73***	5.88***	3.53***	1.16	2.39**
Acres reseeded	Percent of acres	4.97***	2.84***	4.01***	0.24	3.95***
Home-grown seed	Percent of seed	4.98***	0.54	0.45	2.98***	3.89***
Fertilizer use:	J					
Any fertilizer	Percent of farms	5.05***	1.03	1.56	1.26	2.45**
Nitrogen	Percent of farms	2.56**	0.42	1.57	1.02	2.24**
Phosphorus	Percent of farms	0.91	0.83	4.73***	4.26***	0.01
Potassium	Percent of farms	7.30***	5.59***	4.30***	2.42**	1.42
Manure	Percent of farms	5.84***	4.33***	3.59***	2.66***	1.78*
	1 ereem of james	3.01	1.55	3.37	2.00	1.70
Fertilizer application rate:	Pounds/acre	3.34***	0.15	0.28	2.21**	2.52**
Nitrogen	Pounds/acre Pounds/acre	2.30**	2.52**	1.41	1.71*	0.81
Phosphorus		5.81***	5.68***	1.76*	0.85	1.49
Potassium	Pounds/acre	5.43***	2.24**	2.28**	0.69	1.59
Manure	Tons/acre	3.43	2.24	2.28.	0.09	1.39
Chemical use:	5				0.04	40 = 4 + 4 +
Any chemicals	Percent of farms	1.07	8.33	3.95***	0.84	10.71***
Herbicides	Percent of farms	0.54	8.15	4.23***	0.75	11.14***
Insecticides/fungicides	Percent of farms	0.57	0.31	3.91***	3.49***	0.46
Herbicides	Acre treatments	1.88*	5.42***	8.55***	0.30	7.68***
Insecticides/fungicides	Acre treatments	1.01	2.04**	3.03***	0.27	3.42***
Tillage systems: Conventional with						
moldboard plow	Percent of farms	1.05	1.83*	0.09	2.20**	2.69***
Conventional without	1 creent of farms	1.00	1.05	0.07	2.20	2.07
moldboard plow	Percent of farms	2.04**	0.51	2.55**	1.21	1.67*
Mulch tillage	Percent of farms	1.38	0.72	1.99**	1.67*	0.34
No-till	Percent of farms	0.75	0.72	0.76	0.96	0.43
	1 ercem of jarms	0.73	0.01	0.70	0.70	0.43
Custom operations:	Dono out of forms	0.02	1.53	1.25	2.63***	2.79***
Any custom	Percent of farms	0.92	1.33	1.23	2.03	2.79
Land preparation/	Danaget of fames	2.54**	4.41***	1.33	1.76*	3.10***
cultivation	Percent of farms			1.12	1.58	
Planting	Percent of farms	0.08	0.15	1.12	1.36	0.63
Fertilizer/chemical	D	2.52**	0.47	0.00	2.99***	2 00***
application	Percent of farms	2.53**	0.47	0.80		2.80***
Harvesting/hauling	Percent of farms	1.43	0.97	1.85*	1.52	0.28
Fuel use:						
Diesel	Gallons/acre	2.92***	3.25***	3.17***	3.31***	2.24**
Gasoline	Gallons/acre	0.72	1.12	0.48	0.90	0.71
LP gas	Gallons/acre	1.19	1.69*	0.63	0.24	0.55
Natural gas	1,000 cubic feet/acre	0	0	0	0	0
Electricity	Kilowatt hours/acre	2.41**	1.07	2.03***	1.07	1.06
Labor use:						
Unpaid labor	Hours/acre	2.69***	2.77***	3.18***	3.14***	1.62
Paid labor	Hours/acre	2.47**	2.48**	1.04	4.67***	4.10*

^{*=} Significant at the 10-percent level.

**= Significant at the 5-percent level.

***= Significant at the 1-percent level.

Appendix table 3—Coefficient of variation: Wheat production costs per planted acre, by region, 1994

Item	North Central	Southeast	Nothern Plains	Central and Southern Plains	Pacific	All FCRS farms		
			D	4				
Cash expenses:		Percent						
Seed	7.68	3.18	8.43	2.78	6.06	3.55		
Fertilizer	12.81	8.08	11.09	5.39	10.53	6.71		
Chemicals	66.26	14.95	15.46	12.37	12.52	8.13		
Custom operations	22.12	12.44	35.72	8.83	25.35	8.05		
Fuel, lube, and electricity	9.62	4.91	9.78	8.98	45.87	13.52		
Repairs	5.48	4.87	6.59	3.32	5.10	3.35		
Hired labor	18.71	18.15	24.10	16.36	12.81	13.01		
Purchased water and baling	16.87	11.71	24.27	25.75	26.96	19.67		
Total, variable cash expenses	7.60	4.28	7.87	3.19	14.24	5.45		
General farm overhead	14.63	10.14	15.27	7.39	13.83	7.13		
Taxes and insurance	5.55	7.73	10.19	3.59	14.52	5.82		
Interest	24.79	16.57	22.68	14.46	16.07	10.92		
Total, fixed cash expenses	8.77	7.52	4.78	6.15	6.03	3.48		
Total, cash expenses	4.69	3.50	5.41	2.78	10.89	4.25		
Economic (full-ownership) costs:								
Variable cash expenses	7.60	4.28	7.87	3.19	14.24	5.45		
General farm overhead	14.63	10.14	15.27	7.39	13.83	7.13		
Taxes and insurance	5.55	7.73	10.19	3.59	14.52	5.82		
Capital replacement	3.49	2.88	5.68	4.82	4.53	3.12		
Operating capital	7.60	4.28	7.87	3.19	14.24	5.45		
Other nonland capital	3.91	3.52	5.07	4.28	3.67	2.33		
Land	8.01	16.21	6.42	6.30	5.28	4.11		
Unpaid labor	5.22	11.05	16.49	5.39	15.19	6.64		
Total, economic (full-ownership) costs	3.98	3.39	7.01	2.48	7.27	4.00		
Yield	3.69	6.23	2.88	3.55	10.08	3.23		

Appendix table 4—Coefficient of variation: Wheat production costs per planted acre, by variable cost group, 1994

Item	Low-cost producers	Mid-cost producers	High-cost producers	All FCRS		
Item	producers	producers	producers	farms		
	Percent					
Cash expenses:						
Seed	7.07	3.42	4.25	3.55		
Fertilizer	14.21	6.26	9.87	6.71		
Chemicals	11.11	7.76	13.98	8.13		
Custom operations	43.15	10.72	15.24	8.05		
Fuel, lube, and electricity	14.71	9.72	30.39	13.52		
Repairs	6.65	3.06	5.60	3.35		
Hired labor	33.92	15.57	16.82	13.01		
Purchased water and baling	34.23	27.18	38.94	19.67		
Total, variable cash expenses	6.79	2.53	11.20	5.45		
General farm overhead	23.08	5.37	13.45	7.13		
Taxes and insurance	13.89	3.43	13.84	5.82		
Interest	22.69	11.05	13.38	10.92		
Total, fixed cash expenses	6.48	4.72	8.04	3.48		
Total, cash expenses	6.16	2.20	9.98	4.25		
Economic (full-ownership) costs:						
Variable cash expenses	6.79	2.53	11.20	5.45		
General farm overhead	23.08	5.37	13.45	7.13		
Taxes and insurance	13.89	3.43	13.84	5.82		
Capital replacement	5.84	3.61	6.40	3.12		
Operating capital	6.79	2.53	11.20	5.45		
Other nonland capital	4.41	3.36	4.98	2.33		
Land	13.21	3.51	11.30	4.11		
Unpaid labor	21.33	5.52	8.39	6.64		
Total, economic costs	9.99	2.03	8.55	4.00		
Yield	8.33	2.17	17.09	2.23		

Appendix table 5—Coefficient of variation: Wheat production costs per planted acre, by enterprise size, 1994

	Wheat acres planted				
	Fewer than	50-199	200-399	400 or	All FCRS
Item	50 acres	acres	acres	more acres	farms
			Percent		
Cash expenses:			1 erceni		
Seed	6.94	6.30	5.41	4.57	3.55
Fertilizer	7.48	13.01	8.13	8.71	6.71
Chemicals	18.61	15.28	12.48	10.41	8.13
Custom operations	20.16	16.43	14.78	10.18	8.05
Fuel, lube, and electricity	8.67	6.16	16.73	19.78	13.52
Repairs	6.01	4.04	4.02	4.79	3.35
Hired labor	30.38	15.72	21.92	17.75	13.01
Purchased water and baling	28.06	15.82	56.60	47.66	19.67
Total, variable cash expenses	5.02	6.05	5.83	7.88	5.45
General farm overhead	26.73	10.99	9.82	9.09	7.13
Taxes and insurance	11.72	6.86	6.97	8.26	5.82
Interest	20.74	21.66	17.57	13.85	10.92
Total, fixed cash expenses	10.15	9.10	8.35	4.38	3.48
Total, cash expenses	5.21	4.77	5.43	6.08	4.25
Economic (full-ownership) costs:					
Variable cash expenses	5.02	6.05	5.83	7.88	5.45
General farm overhead	26.73	10.99	9.82	9.09	7.13
Taxes and insurance	11.72	6.86	6.97	8.26	5.82
Capital replacement	3.61	3.46	4.07	4.42	3.12
Operating capital	5.02	6.05	5.83	7.88	5.45
Other nonland capital	5.10	3.90	3.97	3.19	2.33
Land	7.34	7.29	5.25	5.60	4.11
Unpaid labor	16.41	8.89	7.07	8.69	6.64
Total, economic (full-ownership) costs	3.79	3.71	3.84	5.66	4.00
Yield	6.93	6.28	5.50	4.60	3.23

Appendix table 6—Input use of wheat production operations, by enterprise size, 1994

			Wheat ac	Wheat acres planted	
		Fewer than 50	50-199	200-399	400 or more
Item	Unit	wheat acres	wheat acres	wheat acres	wheat acres
Wheat yield:					
Actual yield	Bushels/acre	46.63	37.03	35.54	31.17
Expected yield	Bushels/acre	49.33	43.30	40.61	37.87
Seed:					
Rate-one time	Bushels/acre	1.83	1.60	1.44	1.34
Acres reseeded	Percent of acres	0.96	1.06	1.04	3.10
Home-grown seed	Percent of seed	17	33	50	51
Fertilizer use:					
Any fertilizer	Percent of farms	93	88	92	95
Nitrogen	Percent of farms	92	88	92	95
Phosphorus	Percent of farms	71	62	63	67
Potassium	Percent of farms	57	38	25	13
Manure	Percent of farms	7	*	*	*
Fertilizer application rates:					
Nitrogen	Pounds/acre	66.57	56.47	62.86	54.63
Phosphorus	Pounds/acre	40.12	26.25	25.19	18.69
Potassium	Pounds/acre	35.87	20.68	12.17	2.95
Manure	Tons/acre	0.39	0.10	0.01	0.02
Chemical use:					
Any chemicals	Percent of farms	31	47	64	74
Herbicides	Percent of farms	30	45	58	73
Insecticides/fungicides	Percent of farms	*	*	10	10
Herbicides	Acre treatments	0.34	0.46	0.65	0.90
Insecticides/fungicides Tillage system:	Acre treatments	0	0.02	0.08	0.05
Conventional with					
moldboard plow	Percent of farms	13	6	5	5
Conventional without					
moldboard plow	Percent of farms	66	54	73	74
Mulch tillage	Percent of farms	12	25	14	20
No-till	Percent of farms	9	15	9	*
Custom operations:	D	50	50	50	5 .5
Any custom operations	Percent of farms	58	59	59	75
Land prearation/	Daniel of Comme	6	0	12	26
cultivation	Percent of farms	6	8	13	36
Planting	Percent of farms	2	6	T	7
Fertilizer/chemical	Daniel of Comme	47	46	4.6	50
application	Percent of farms	47	46	46	59
Harvesting/hauling	Percent of farms	20	26	18	30
Fuel use: Diesel	Gallons/acre	4.57	4.04	5.20	5.02
	Gallons/acre Gallons/acre	4.57			
Gasoline		3.43	2.77	3.73	2.20
LP gas	Gallons/acre	0.04	0.28	0	0.14
Natural gas	1,000 cubic feet/acre	0.04	0.11	0.13	0.30
Electricity	Kilowatt hours/acre	0.08	0.05	0.31	0.14
Labor use:	11/	2.20	1.70	1 45	1 12
Unpaid labor Paid labor	Hours/acre Hours/acre	2.28 0.57	1.72 0.32	1.45 0.26	1.12 0.41
1 414 14001	110415/4016	0.57	0.34	0.20	V.+1

^{* = 0.1} to less than 5 percent. Totals may not add to 100 percent due to omission of a category or rounding error. Source: U.S. Department of Agriculture's 1994 Farm Costs and Returns Survey.